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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/990,874	11/21/2001	Wing L. Sung	07121.0003U1	2196

23859 7590 05/26/2004  
NEEDLE & ROSENBERG, P.C.  
SUITE 1000  
999 PEACHTREE STREET  
ATLANTA, GA 30309-3915

EXAMINER

RAO, MANJUNATH N

ART UNIT	PAPER NUMBER
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1652

DATE MAILED: 05/26/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

**UNITED STATES DEPARTMENT OF COMMERCE****U.S. Patent and Trademark Office**

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APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.
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EXAMINER
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ART UNIT	PAPER
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20040524

DATE MAILED:

**Please find below and/or attached an Office communication concerning this application or proceeding.**

**Commissioner for Patents****Sequence Compliance**

This application contains sequence disclosures that are encompassed by the definitions for nucleotide and/or amino acid sequences set forth in 37 CFR 1.821(a)(1) and (a)(2). However, this application fails to comply with the requirements of 37 CFR 1.821 through 1.825 for the reason(s) set forth on the attached Notice To Comply With Requirements For Patent Applications Containing Nucleotide Sequence And/Or Amino Acid Sequence Disclosures.

An error has been detected in the electronic sequence information submitted on 3-17-04, because of which the sequence information has not been entered into the USPTO sequence database. Applicants attention is also drawn to the Sequence Error report enclosed herewith. See particularly 37 CFR 1.821(d).

Any inquiry concerning this communication should be directed to Examiner Manjunath Rao Art Unit 1652, whose telephone number is (571) 272-0939.

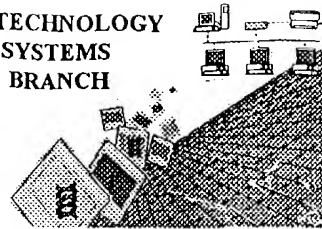
Any inquiry of a general nature or relating to the status of this application should be directed to the Customer Service Center whose telephone number is (571)272-1600.

APPLICANT IS GIVEN ONE MONTH FROM THE DATE OF THIS LETTER WITHIN WHICH TO COMPLY WITH THE SEQUENCE RULES, 37 CFR 1.821 - 1.825. Failure to comply with these requirements will result in ABANDONMENT of the application under 37 CFR 1.821(g). Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136. In no case may an applicant extend the period for response beyond the six month statutory period. Applicant is requested to return a copy of the attached Notice to Comply with the response.

Manjunath N. Rao, Ph.D.  
Primary Examiner  
Art Unit: 1652

Copy  
3381

BIOTECHNOLOGY  
SYSTEMS  
BRANCH



**RAW SEQUENCE LISTING**  
**ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/990,874A  
Source: 1690  
Date Processed by STIC: 1/21/04

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221

*Effective 12/13/03:* TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

**<http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebs/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to (EFFECTIVE 12/01/03):  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03



1600

## RAW SEQUENCE LISTING

DATE: 01/21/2004

PATENT APPLICATION: US/09/990,874A

TIME: 15:10:03

Input Set : A:\205448\_1.doc

Output Set: N:\CRF4\01202004\I990874A.raw

3 <110> APPLICANT: Sung, Wing  
 5 <120> TITLE OF INVENTION: Xylanases with Enhanced Thermophilicity and Alkalophilicity  
 7 <130> FILE REFERENCE: 07121.0003U1  
 9 <140> CURRENT APPLICATION NUMBER: 09/990,874A  
 10 <141> CURRENT FILING DATE: 2001-11-21  
 12 <160> NUMBER OF SEQ ID NOS: 71  
 14 <170> SOFTWARE: PatentIn version 3.0

## ERRORED SEQUENCES

1532 <210> SEQ ID NO: 47  
 1534 <211> LENGTH: 54 *66 shown below*  
 1536 <212> TYPE: DNA  
 1538 <213> ORGANISM: Artificial  
 1540 <220> FEATURE:  
 1542 <223> OTHER INFORMATION: Tx-144R-1r  
 1546 <400> SEQUENCE: 47  
 1547 ccattgcatta aagtgattcg cagtattaac cgaaccggag ctccgacgat tacgtctaac 60

E--&gt; 1549 actcca

66

09/990,874A 2

<210> 56

<211> 112

<212> DNA

<213> Artificial Artificial

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/990,874A

DATE: 01/21/2004  
TIME: 15:10:05

Input Set : A:\205448\_1.doc  
Output Set: N:\CRF4\01202004\I990874A.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44

Seq#:45,46,47,48,49,50,51,52,53,55,57,58,59,60,61,62,63,64,65,66,67,68,69,70

Seq#:71

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/990,874A

DATE: 01/21/2004

TIME: 15:10:05

Input Set : A:\205448\_1.doc

Output Set: N:\CRF4\01202004\I990874A.raw

L:1549 M:252 E: No: of Seq. differs, <211> LENGTH:Input:54 Found:66 SEQ:47

L:1767 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:56